

HPLC测定黑草中木犀草素和芹菜素的含量

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中文摘要:目的:建立高效液相色谱测定黑草药材中木犀草素和芹菜素的含量的方法。方法:样品用甲醇回流提取90 min,用Agilent Extend-C₁₈(4.6 mm×250 mm,5 μm)色谱柱分离,以乙腈-0.7%冰醋酸(30:70)为流动相,流速1.0 mL·min⁻¹,检测波长350 nm;柱温35℃,进样量10 μL,以外标法定量。结果:木犀草素在1.126~112.6 mg·L⁻¹呈良好的线性关系($r=0.9997$),平均回收率101.3%,RSD 1.2% ($n=6$);芹菜素在0.886~88.6 mg·L⁻¹呈良好的线性关系($r=0.9995$),平均回收率99.4%,RSD 2.2% ($n=6$)。结论:该法操作简便,结果准确可靠,重复性及稳定性良好,可作为控制黑草药材质量的方法。

中文关键词:[黑草](#) [木犀草素](#) [芹菜素](#) [高效液相色谱](#) [含量测定](#)

Determination of the Content of Luteolin and Diosmetin in *Buchnera cruciata* by HPLC


Abstract: Objective: To develop a HPLC method for determination of the content of luteolin and diosmetin in *Buchnera cruciata*. **Method:** Samples were extracted for 90 minutes with methanol, a Agilent Extend-C₁₈ column(4.6 mm×250 mm,5 μm) was used for composition separation and the mobile phase consisted of acetonitrile-0.7%acetic acid (30:70) with a flow rate of 1.0mL·min⁻¹. The detection wavelength was at 350 nm, column temperature was at 35℃. Sample volume is 10 μL, The content of luteolin and diosmetin in *B. cruciata* was determined by external standard method. **Result:** The linear of luteolin and diosmetin concentrations were within 1.126-112.6 mg·L⁻¹($r=0.9997$), 0.886-88.6μg·ml⁻¹($r=0.9995$), the average recoveries of luteolin and diosmetin were 101.3%(RSD 1.2%, $n=6$), 99.4%(RSD 2.2%, $n=6$). **Conclusion:** The method is simple, accurate and reproducible with good stability, can be used as quality control methods for *B. cruciata* medicinal materials.

keywords: [Buchnera cruciata](#) [luteolin](#) [diosmetin](#) [HPLC](#) [determination](#)

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